

(or the number of locomotives or locomotive engines in the subset of the engine family for which credits are being calculated). Quarterly production projections are used for initial certification. Actual applicable production/sales volumes are used for end-of-year compliance determination.

(v) F_p = the proration factor as determined in paragraph (c) of this section.

(b) When useful life is expressed in terms of miles or years, the useful life in terms of megawatt hours (UL) shall be calculated by dividing the useful life in miles by 100,000, and multiplying by the sales weighted average horsepower of the engine family. Credits are calculated using this UL value in the equations of paragraph (a) of this section.

(c) The proration factor is an estimate of the fraction of a locomotive's service life that remains as a function of age.

(1) The locomotive's age is the length of time in years from the date of original manufacture to the date at which the remanufacture (for which credits are being calculated) is completed, rounded to the next higher year.

(2) The proration factors for ages 1 through 32 are specified in Table D305–1 of this section. For locomotives or locomotive engines more than 32 years old, the proration factor for 32 year old locomotives shall be used.

(3) For replacement or repower engines, the proration factor is based on the age of the locomotive chassis, not the age of the engine.

TABLE TO § 92.305

TABLE D305–1—PRORATION FACTOR

Age	F_p	Age	F_p
1	0.964	17	0.452
2	0.929	18	0.429
3	0.893	19	0.405
4	0.857	20	0.381
5	0.821	21	0.357
6	0.786	22	0.333
7	0.750	23	0.310
8	0.714	24	0.286
9	0.679	25	0.268
10	0.643	26	0.250
11	0.607	27	0.232
12	0.571	28	0.214
13	0.548	29	0.196
14	0.524	30	0.179
15	0.500	31	0.161
16	0.476	32	0.143

§ 92.306 Certification.

(a) In the application for certification a manufacturer or remanufacturer must:

(1) Declare its intent to include specific engine families in the averaging, banking, and/or trading programs. Separate declarations are required for each program (line-haul and switch) and for each pollutant (NO_x and PM).

(2) Declare duty-cycle FELs for each engine family participating in certification averaging, banking, and/or trading.

(i) The FELs must be to the same number of significant digits as the emission standard.

(ii) In no case may the FEL exceed the upper limit prescribed in § 92.304(k).

(3) Conduct and submit detailed calculations of projected emission credits (positive or negative) based on quarterly production projections for each participating family and for each pollutant, using the applicable equation in § 92.305 and the applicable values of the terms in the equation for the specific family.

(i) If the engine family is projected to have negative emission credits, state specifically the source (manufacturer/engine family, remanufacturer/engine family, or transfer) of the credits necessary to offset the credit deficit according to quarterly projected production.

(ii) If the engine family is projected to generate credits, state specifically where the quarterly projected credits will be applied (manufacturer/engine family or remanufacturer/engine family, reserved or transfer).

(4) Submit a statement that the locomotives or locomotive engines for which certification is requested will not, to the best of the manufacturer's or remanufacturer's belief, cause the manufacturer or remanufacturer to have a negative credit balance when all credits are calculated for all the manufacturer's or remanufacturer's engine families participating in the averaging, banking, and trading program.

(b) Based on this information, each manufacturer's certification application must demonstrate:

(1) That at the end of model year production, each engine family has a net emissions balance equal to or greater

than zero for any pollutant and program for which participation in certification under averaging, banking, and/or trading is being sought. The equation in section §92.305 shall be used in this calculation for each engine family.

(2) That the manufacturer or remanufacturer will obtain sufficient credits to be used to comply with the emission standard for any engine family with an FEL that exceeds the applicable emission standard, or where credits will be applied if the FEL is less than the emission standard. In cases where credits are being obtained, for each engine family involved the manufacturer or remanufacturer must identify specifically the source of the credits being used (manufacturer/engine family, or remanufacturer/engine family, or transfer). All such reports shall include all credits involved in certification averaging, banking, or trading.

(3) In cases where credits are being generated/supplied, each engine family must indicate specifically the designated use of the credits involved (manufacturer/remanufacturer and engine family, reserved or transfer). All such reports shall include all credits involved in certification averaging, banking, or trading.

(c) Manufacturers and remanufacturers must monitor projected versus actual production throughout the model year to ensure that compliance with emission standards is achieved at the end of the model year.

(d) At the end of the model year, the manufacturer or remanufacturer must provide the end-of-year reports required under §92.309.

(1) Projected credits based on the information supplied in the certification application may be used to obtain a certificate of conformity. However, any such projected credits must be validated based on review of the end of model year reports and may be revoked at a later time based on follow-up audits or any other verification measure deemed appropriate by the Administrator.

(2) Compliance for engine families using averaging, banking, or trading will be determined at the end of the model year. Manufacturers and remanufacturers that have certified engine families with credit balances for

NO_x and/or PM that do not equal or exceed zero shall be in violation of the conditions of the certificate of conformity for such engine families. The certificate of conformity may be voided *ab initio* for those engine families.

(e) Other conditions of certification.

(1) All certificates issued are conditional upon compliance by the manufacturer or remanufacturer with the provisions of this subpart both during and after the calendar year of production.

(2) Failure to comply with all provisions of this subpart will be considered to be a failure to satisfy the conditions upon which the certificate was issued, and the certificate may be deemed void *ab initio*.

(3) The manufacturer or remanufacturer (as applicable) bears the burden of establishing to the satisfaction of the Administrator that the conditions upon which the certificate was issued were satisfied or waived.

§ 92.307 Labeling.

For all locomotives and locomotive engines included in the certification averaging, banking, and trading program, the FEL to which the locomotive or locomotive engine is certified must be included on the label required in §92.212. This label must include the notification specified in §92.304(n).

§ 92.308 Maintenance of records.

(a) The manufacturer or remanufacturer of any locomotive or locomotive engine that is certified under the averaging, banking, and trading program must establish, maintain, and retain the following adequately organized and indexed records for each such locomotive or locomotive engine produced:

(1) EPA engine family and configuration;

(2) Engine identification number;

(3) Engine calendar year and build date;

(4) Rated horsepower;

(5) Purchaser and destination or owner; and

(6) Assembly plant.

(b) The manufacturer or remanufacturer of any engine family that is certified under the averaging, banking, and trading program must establish,